Muralidharan Sridharan

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# CAREER OBJECTIVE

* 18 years of experience in designing, developing, testing, and deploying scalable web applications using Java/J2EE, Microservices, and N-Tier Architecture with MVC design patterns and industries such as Cruise Ships, Telecom, Healthcare and Retail.
* Expert in Spring Framework modules (Spring Boot, Spring MVC, Spring Microservices, Spring REST, Spring Batch, Spring Security, Spring Data, Spring Cloud, and OAuth2) and backend programming using Oracle PL/SQL, MySQL, MS SQL Server, Cassandra , Proficient in advanced Java 17 features.
* Proficient in API testing using tools like Swagger, Postman, and JMeter, with deep expertise in version control systems such as Git. Demonstrated ability to optimize system performance, ensure scalability, and deliver innovative, business-aligned solutions.
* Designed and developed applications from scratch, handling requirements gathering, UI specification, coding, testing (TDD), deployment, and post-maintenance.
* Built Spring Boot-based microservices, ensuring modularity, scalability, and high availability. Developed REST APIs for cloud-based applications.
* Expertise in AWS (EC2, S3, CloudFormation, RDS, ELB, CloudWatch) and GCP (Firewall rules, Cloud CDN) for deployment, monitoring, and infrastructure automation.
* Implemented Apache Kafka Producers & Consumers for efficient, real-time data streaming and system communication.
* Developed Spring Batch jobs for scheduled and high-volume data processing across multiple enterprise applications.
* Integrated Spring Security, OAuth2, IAM, and JWT to ensure secure access control.
* Proficient in Oracle PL/SQL, Liquibase, and JSON-based storage solutions.
* Managed ELK stack (Elasticsearch, Logstash, Kibana), AWS CloudWatch, and Elastic Cloud services for system performance and failure detection
* Successfully migrated monolithic legacy applications (Struts2, Spring MVC) to modern Spring Boot microservices, improving scalability and maintainability.
* Built a custom PDF generation framework using JSON responses for automated document creation in financial and enterprise applications.
* Extensive experience in architecting cloud-based web applications.

# SKILLS

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| **Languages:** | Java, J2EE, Spring Boot, Microservices, Spring Batch |
| **Front-End UI Tools** | JSP, Servlets, Angular (8/9), React |
| **Cloud Technologies & DevOps** | Pivotal Cloud Foundation, Google Cloud, AWS (EC2, EKS, SQS, SNS, Lambda), Kubernetes, Docker, Elasticsearch, Terraform |
| **Logger services** | Apache Log4J , Kibana Logging, Elastic search |
| **Storage & Cloud Storage:** | Azure, Amazon S3, GCP Storage |
| **Relational Databases** | Microsoft SQL Server, MySQL, Cassandra, Oracle 19c |
| **IDE:** | JetBrains IntelliJ IDEA |
| **Version Control:** | GIT, Tortoise SVN |
| **ORM Tools** | Hibernate, JPA |
| **Messaging:** | Apache Kafka( |
| **BPM Tools** | jBPM 5.5, Drools, Camunda BPM |
| **Web Services** | JAX-WS (SOAP/WSDL), JAX-RS (RESTful) |
| **Continuous Integration/DevOps:** | Jenkins, CI/CD Pipelines, Docker, Kubernetes |
| **Unit Testing:** | JUnit |
| **Code Quality** | Spot Bugs, PMD, Check style, SonarQube. |
| **XML Technologies:** | XML, Voice XML |
| **Security:** | Fossa, OAuth2.0 |

# WORK EXPERIENCE

## Senior Software Engineer, Princess CRUISE Line – Los Angeles, California, USA 04/2024 – 11/2024

**Project Description :** OASSYS Finance Projects & International Immigration Systems – Cruise Ship Services to support internal and external applications for OASSYS Finance and International Immigration systems across global cruise ships, enhancing guest experiences and managing finance and immigration operations**,** Facilitate global guest travel experiences on cruise ships by integrating systems for finance management, tax services, jurisdiction management, restaurant reservations, hotel management, casino access, event hall bookings, and more.

**Roles and Responsibilities:**

* Designed and developed applications from scratch, including requirements gathering, UI specification creation, analysis, coding, testing (TDD model), deployment, and post-maintenance monitoring.
* Leading a team of 5 member for onsite operation
* Built Spring Boot APIs based on user requirements, deployed as services on cloud servers for scalable operations.
* Developed Spring Batch projects for batch processing and configured nightly jobs and schedulers for database updates.
* Migrated and maintained legacy projects (Struts2, Kafka) while integrating Amazon S3 for data storage.
* Configured Apache KafkaProducers, Consumers to enable efficient real-time live messaging between systems.
* Migrated legacy Struts2 applications to modern Spring Boot architecture, integrating Kafka for event-driven processing and Amazon S3 for efficient data storage.
* Designed and implemented real-time messaging solutions using Apache Kafka, configuring Producers, Consumers, and Topics to enable seamless communication between distributed systems.
* Optimized batch processing using Spring Batch, configuring job schedulers and database updates to improve system performance and data consistency.
* Developed Slack messaging and communication services for cross-project use.
* Created microservices using Spring Boot in a microservices architecture to ensure scalability and fault tolerance.
* Authored Liquibase scripts for Oracle DB changes and performed database programming using Oracle PL/SQL.
* Implemented Authentication (Spring Security, OAuth2, IAM, JWT Token)
* Deployed and managed AWS infrastructure, including S3 buckets, EC2 instances, and CloudFormation templates.
* Constructed a PDF generation framework using JSON responses.
* Developed notification services for email and Slack integration, ensuring timely alerts across systems.
* Monitored logs, processes, and system statistics, memory, disk, and process loads using Elastic Cloud services, enabling real-time identification of production failures.

**Environment**: Java, Python, SQL, Oracle PL/SQL, PostgreSQL, MySQL, MongoDB, Jenkins, Docker, Kubernetes, Terraform, Git, GitHub, Bitbucket, AWS, GCP, Azure, JIRA, Confluence, IBM Lombardi BPMN, Pentaho, Talend

## Senior Software Engineer, Ford Motor Company, Detroit, Michigan, USA 08/2020 – 04/2024

**Project Description:** CVAS Evap Purge and PAE is a customer-facing applications for EV-Charging Station services for Ford vehicles, supporting the APAC region and Ford of Europe for charging station management, enabling seamless operations across Ford's regional markets.

**Roles and Responsibilities:**

* Delivered customer-facing applications for EV-Charging Station services for Ford vehicles for APAC region and Ford of Europe.
* Developed and deployed scalable solutions for charging station management, enabling seamless operations across Ford's regional markets.
* Integrated EV-charging station data pipelines by processing JSON master files from Microsoft Azure Storage using Spring Batch, ensuring efficient data transformation and scheduling.
* Led requirements gathering and authored UI specification documents.
* Consumed JSON master files from Microsoft Azure Storage and processed them using Spring Batch jobs.
* Created Spring Boot APIs based on user specifications, packaged as services for deployment to cloud servers and S3 bucket for file storage and retrieval.
* Designed and developed a React applications for Single page front end UI.
* Integrated EV-charging station data pipelines by processing JSON master files from Microsoft Azure Storage using Spring Batch, ensuring efficient data transformation and scheduling.
* Developed and integrated Slack messaging and communication services across multiple projects for real- time notifications.
* Developed microservices-based architecture using Spring Boot, ensuring high availability, fault tolerance, and seamless API communication.
* Built Spring Boot-based microservices for modular, scalable web applications, adhering to microservices architecture and Deployed in Amazon EC2 containers with Spring Security and OAuth2.
* Monitored system resources and application performance using AWS CloudWatch, EBS, EC2, ELB, RDS, and S3 instances, Kibana and ELK search.

**Environment:** Java, JavaScript, Typescript, AWS, Azure, Spring Boot, Spring Batch, Spring Security, OAuth2, Hibernate, React.js, Apache Kafka, Slack Integration, PostgreSQL, MySQL, Oracle PL/SQL.

## Senior Software Engineer, Union Pacific Railroad, Omaha, Nebraska - USA 01/2020 – 07/2020

**Project Description:** The objective of the project is to service all internal Union Pacific applications to service the internal and external customer faced applications as standalone web service.

**Roles and Responsibilities:**

* Conducted requirements analysis and developed system specifications to align project goals with business objectives.
* Designed and optimized RESTful APIs using Spring Boot, ensuring high availability and performance for internal and external applications.
* Configured Kafka Streams to process real-time data events, enhancing inter-service communication between microservices.
* Developed and deployed containerized microservices using Docker and Kubernetes, improving scalability and fault tolerance.
* Integrated Spring Security and OAuth2 for secure authentication and authorization across multiple internal applications.
* Implemented log monitoring and alerting using ELK Stack (Elasticsearch, Logstash, Kibana) to track application performance and identify issues proactively.
* Migrated legacy Spring projects to Spring Boot services, improving scalability and maintainability.
* Implemented Apache Kafka messaging to facilitate communication between upstream and downstream Spring Boot projects, ensuring seamless data flow.
* Created and deployed web services using Spring Boot within a Microservices architecture, enabling modular, scalable applications.
* Coding from scratch: Spring Batch processes, automating key data processing tasks.
* Practiced pair programming for small user stories, ensuring knowledge sharing and continuous learning within the team.

**Environment:** Java, SQL, Docker, Kubernetes, Jenkins, Terraform, GitHub, Bitbucket, Apache Kafka, Kafka Streams, Spring boot, OAuth2, JWT, Spring Security

## Senior Software Engineer - AT&T, Atlanta, Georgia - USA 06/2017 –12/2019

**Project Description: CCT-IP (Call center technology – Interactive Voice Response platform) - AEP projects**

The objective of the project is to service all AT&T call center applications to service the customer.

Avaya Aura Experience Portal is the voice platform solution by Avaya that AT&T CCT team is moving towards from the old MPS (Media Processing Server) voice platform. Marketed as the advanced voice platform and more future-proof than the old MPS platform, the AEP supports many features such as multi-modal channels support (i.e., ability to talk to caller/customer on voice as well as other visual channels such as web and SMS-text simultaneously), provides native support for Call Control Xml (CCXML) voice specification along with the traditional Voice-XML support.

**Roles and Responsibilities:**

* Conducted requirements analysis and developed detailed system specifications for new features and enhancements.
* Created APIs based on user requirements and packaged them as deployable services to cloud servers, ensuring seamless integration with existing systems.
* Designed and developed scalable event-driven microservices using Spring Boot and Apache Kafka to enhance real-time voice data processing.
* Integrated Avaya Aura Experience Portal with Kafka producers and consumers, enabling seamless voice-to-text and text-to-voice interactions.
* Developed secure APIs for multi-channel support (voice, web, and SMS) using Spring Security and OAuth2 for authentication.
* Optimized system performance by implementing caching mechanisms using Redis, reducing API response times and improving call center efficiency.
* Implementation of Apache Kafka for live streaming data
* Built microservices to support voice-to-XML conversion for English/Spanish support using Voice-XML and CCXML, enhancing call center operations using Avaya Enterprise Portal.
* Configured GCP Firewall rules to control traffic between VM instances and utilized GCP Cloud CDN.
* Utilized AWS S3 for storing CloudFormation templates and EC2 instances, optimizing cloud infrastructure deployment.

**Environment:** OAuth2, JWT, Spring Security, redis (caching), PostgreSQL, MySQL, AWS S3, Restful APIs, Voice-XML, CCXML, Kubernetes (K8s), Docker, Jenkins, Terraform.

## Senior Software Engineer, Ford Motor Company (Offshore, Chennai, India) 09/2013 – 05/2017

**Project Description :** The objective of the project ASAP (Advanced Sourcing Automated Process)

is to service all Ford Buyers and Suppliers to source the parts to build a new car when it is launched. This Process of identification of suppliers is called as Sourcing. The ASAP application has basically 6 modules in it. The Process Starts with the First Module known as Create and continues sequentially (except for Package/DOA which are parallel tasks) till it reaches the Settle module where the final CPA document is signed. There are 6 modules which involve Create, Plan, Package, DOA, Source, Settle where the overall cycle of PSA.

**Roles and Responsibilities:**

* Requirements Analysis and Developed System Specifications.
* Involved in the functional, technical design and development of the application modules.
* Involving in development and BPD business workflows using IBM Lombardi BPMN modeler for key business flows.
* Developed webservices using Spring and BPM integration.
* Creating JSON output for the Purchasing data and storing it in an Azure Storage for reporting purposes.
* Creating user stories based on the requirements and prioritizing them.
* Practiced Pair programming for JIRA stories.

**Environment:** Microsoft Azure, PostgreSQL, MySQL, Azure Storage, Spring Boot, Spring MVC, Spring Security, Git, GitHub, GitLab, IBM Lombardi BPMN Modeler.

**Senior Software Engineer, Apple Inc. Cupertino, California - USA 12/2011 – 08/2013**

**Project Description:** The objective of the Apple PS (Identity Management Services and Provisioning Systems)

is to set provisions to the apple employees. Apple Organization has large number of applications that need to be provisioned for user access. As employees / support partners / contractors join / leave the organization, access, and revoke access to the applications that they use to perform their functions. Providing access manually would be time-consuming and inefficient. PS2 System is conceived with the intention to automate the task of providing access to applications (Provisioning). An existing system (Provisioning System) has been in place but has some limitations, which need to address. Another important reason for implementing the Provisioning System is to ensure a central repository of access, roles, permissions, applications.

**Roles and Responsibilities:**

* Requirements Analysis and Developed System Specifications.
* Involved in the functional, technical design and development of the application modules.
* Analyzed all Inventory Planning & Replenishment existing projects for the impact based on current scope of this project, identified impacted project – components, designed and implemented the remediation solution.
* Developed webservices using Spring and BPM integration.
* Worked in GRID Application Development and Maintenance for Apple Provisioning Systems
* Took Complete Ownership of Apple GBI Reports – All regions’ data through xml and to EAI
* Publishing Systems, Data Feed for Apple Applications

**Responsibilities:** Java, Java 8+, BPM Integration, Oracle, MySQL, XML Data Stores, RESTful Web Services, XML-based Data Feeds, Git, Jenkins, CI/CD Pipelines, JIRA, Confluence.

**Application Developer, Globus Medicals Inc – USA (Offshore, India) 08/2010 – 10/2011 Project Description:** Globus Medicals is one of the world’s largest privately held spinal company, is driving

significant technological advancements across a complete suite of spinal products. The vision is to create products that enable spine surgeons to use both fusion and non-fusion solutions to meet the needs of their patients. This is made available to Hospitals and surgeons through the Sales rep within and outside Globus.

The offshore Development Centre is in Chennai and mostly handles the new Projects, Enhancements to the Intranet Portal which every department within Globus uses on a day-to-day basis.

**Roles and Responsibilities:**

* Requirements Analysis and Developed System Specifications.
* Creating user stories based on the requirements and prioritizing them.
* Implementing the business logic through Oracle PL/SQL Programming by creating Stored Procedures, Triggers, Functions and Materialized views.
* Provided support during maintenance phase for Manufacturing, Sales department module development.
* Created Web services for Integration applications to communicate with FileNet Content services.

## Application Analyst, Mantra solutions Inc. USA (Offshore, India) 08/2009 – 07/2010

**Project Description:** The objective of the project is to maintain the clinical data of patient information system. ARxChange is an ERP product and principal monitoring. This application mainly deals with hospitals in the US to make a patient’s details in batch file. This application mainly focused on the following modules. Portfolio setup, Selling-section, Bidding-section, Groups management, My profile section, Admin-panel.

**Roles and Responsibilities:**

* Conducted requirements analysis and developed system specifications, ensuring alignment with both business needs and technical requirements.
* Performed data transformation to JSON using Talend components like TMap, TJoin
* Developed web services for seamless integration with FileNet Content Services document management.
* Created Hibernate mapping files for data tables ensuring smooth data interaction.
* Developed Pentaho Reports and provided production support to ensure accurate and timely data reporting.

## Software Engineer, Soft Build, Chennai, India 06/2007 – 06/2009

**Project Description :** Soft Build (ERP) is a web product that deals with an ERP management for Construction and Real Estate operations. This Project mainly deals with the real estate and Construction companies to manage the business activities inside the departments. It is a complete web application and three tier architecture with thin client UI. This is a multiuser package which can be operated from remote locations and the main Departments of the Package covers Marketing, CRM, MF, Accounts, Human Resource, Consolidation, Projects.

**Roles and Responsibilities:**

* Conducted requirements analysis and developed detailed system specifications to ensure alignment with business needs.
* Created and prioritized user stories based on business requirements, ensuring efficient project execution.
* Developed front-end UI using JSP pages, ensuring an intuitive and responsive user experience.
* Coded Servlets and POJOs to map business workflows, ensuring seamless data processing and integration with back-end systems.

**EDUCATION**

* Master of Computer Applications, Bharathidasan University, India (2003-2006)
* Bachelor of Science in Physics, Bharathidasan University, India (2000-2003)